Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	54	(shortcut same (keystroke or ((soft or hot) adj key)) same combination)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ·	ON	2007/01/09 12:39
L2	50	(shortcut same (keystroke or ((soft or hot) adj key)) same (table or window))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:52
L3	20	1 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:37
L4	83	(shortcut same (keystroke or ((soft or hot) adj key)) same (table or window or event or location or date))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2007/01/09 12:39
L5	96	(shortcut same (keystroke or softkey or hotkey or ((soft or hot) adj key)) same (table or window or event or location or date))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:39
L6	26	5 and (shortcut same (keystroke or ((soft or hot) adj key)) same combination)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:45
L7	83	5 and (shortcut same (keystroke or ((soft or hot) adj key)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:46
L8	0	7 and (query and retriev\$6 and table and record) with ((shortcut or keystroke or key) and context)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:47
L9	1	7 and (query and retriev\$6) and ((table and record) with ((shortcut or keystroke or key) and context))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:48

L10	2	7 and (query or search\$5) and ((table and record) with ((shortcut or keystroke or key) and context))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:48
L11		7 and quer\$5 and ((table and record) with ((shortcut or keystroke or key) and context))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:49
L12	1	7 and quer\$5 with ((table and record) and ((shortcut or keystroke or key) and context))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:49
L13	154	quer\$5 with ((table and record) and ((shortcut or keystroke or key) and context))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 13:00
L14	117	13 and ("345"/\$.ccls. or "707"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:49
L15	33	14 and ((table or record) with ((shortcut or keystroke or key) and context))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 12:50
L16	1	15 and shortcut same (keystroke or softkey or hotkey or ((soft or hot) adj key))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/01/09 12:53
L17	1	15 and quer\$5 and table and record and interface and (shortcut or keystroke or softkey or hotkey or ((soft or hot) adj key) or (key adj stroke)) and context	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 13:02
L18	32	15 and quer\$5 and table and record and interface and context	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 13:02

Ly, Anh

From: STIC-EIC2100@uspto.gov

Sent: Tuesday, January 09, 2007 10:48 AM

To: Ly, Anh

Subject: Database Search Request Confirmation, Serial Number: 10/046,941

Examiner ANH LY:

This is a machine-generated confirmation email to let you know that your search request has been sent to EIC TC2100.

Searches are processed in the order in which they are received. Upon receiving your request, a searcher will contact you to discuss your search. You will be notified again when your search is completed. At that time, you may pick up your search in the EIC. If you prefer, the search will be delivered directly to your office. Deliveries are made twice a day, once in the midmorning and again in the afternoon.

If you have any immediate questions you can contact us at 571-272-4225.

Thank you very much for using the EIC. The text of your request is below.

Your name: ANH LY

Email address: ANH.LY@USPTO.GOV

Employee number: 77831

Art Unit: GROUP ART UNIT 2162

Office Location: RND 03A39 Phone Number: (571)272-4039

Mailbox Number:

Case serial number: 10/046,941 Class / Subclass(es): 707/4

Earliest Priority Filing Date: 01/15/2002 Format preferred for results: Paper

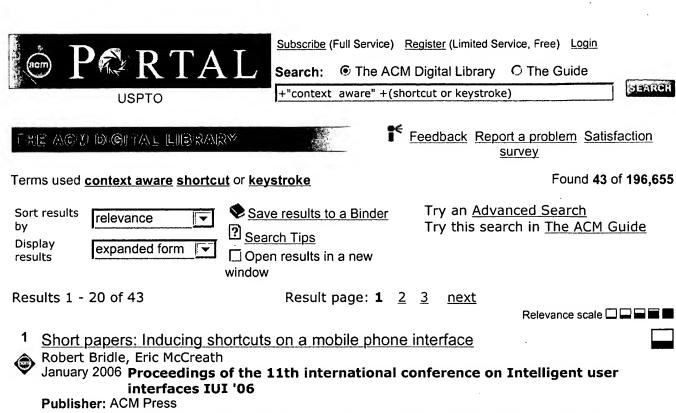
Search Topic Information:

context having a context table name and context field name (see figs. 3 and 4)and shortcut, which is entered thru user interface and has a shortcut field name set (fig. 4)and both context and shortcut are retrievable.

Special Instructions and Other Comments:

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	351	context with (shortcut or softkeys! or hotkeys! or ((soft or hot) adj keys!) or keystrokes! or (key adj strokes!))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:39
L2	76	1 and interface and table and query	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:17
L3	9	1 and interface and table and query and (record with table)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:24
L4	7	1 and (context and shortcut) with field	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:26
L5	67	1 and (shortcut or softkey or hotkey or ((soft or hot) adj key) or keystroke or (key adj strokes)) with combin\$8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:39
L6	543	context and (shortcut or softkeys! or hotkeys! or ((soft or hot) adj keys!) or keystrokes! or (key adj strokes!)) and interface and query and (table with record)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:43
L7	1	6 and stylus adj motion	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:40
L8	. 182	stylus adj motion	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:40
L9	10	8 and (shortcut or softkeys! or hotkeys! or ((soft or hot) adj keys!) or keystrokes! or (key adj strokes!))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:42

L10	7	9 and table and field and record	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:42
L11	0	8 and (keystroke or (key adj stroke)) adj4 combinatioin	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:44
L12	1	8 and (keystroke or (key adj stroke)) adj4 combination	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:44
L13	640	(keystroke or (key adj stroke)) adj4 combination	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:44
L14	10	13 and context with field	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:44



Full text available: Tpdf(510.18 KB) Additional Information: full citation, abstract, references, index terms

Due to size restrictions, mobile phone user interfaces are often difficult to use[8]. In this short paper, we investigated inducing shortcuts to replace the sequence of actions required to complete common tasks on a mobile phone. In particular, we used mobile phone interaction data to evaluate several methods for inducing shortcuts. We considered the balance between maximising interface efficiency and shortcuts that remained stable and hence predictable.

Keywords: adaptive user-interface, mobile phone interfaces, user oriented machine learning

2 Industrial: Context management for end user development of context-aware

applications

Panu Korpipää, Esko-Juhani Malm, Ilkka Salminen, Tapani Rantakokko, Vesa Kyllönen, Ilkka

May 2005 Proceedings of the 6th international conference on Mobile data management MDM '05

Publisher: ACM Press

Full text available: Description Additional Information: full citation, abstract, references

Mobile device context-aware features should be closely coupled to the end user demands. This is achieved by enabling end user development of context-aware applications. A context framework and a tool are presented for facilitating easy customization of contextaware features into existing mobile terminal applications. A blackboard-based context framework for mobile devices is extended with a component for handling user-defined context-action rules, and a component for activating application acti ...

Keywords: application control, context framework, context representation, customization tool, mobile application, personalization

	Mahila agreeigas and taghnalagu tracki CragetDogtourant, mahila naymanta in contact	
9	Mobile services and technology track: SmartRestaurant: mobile payments in context-	
•	<u>aware environment</u> Janne Lukkari, Jani Korhonen, Timo Ojala	
	March 2004 Proceedings of the 6th international conference on Electronic commerce ICEC '04	
	Publisher: ACM Press	
	Full text available: pdf(408.85 KB) Additional Information: full citation, abstract, references, index terms	
	Mobility, context-awareness and payment combined provide a customer with a completely new setting of consuming services at any time and any place. We introduce SmartRestaurant service, which allows customers to use mobile devices for ordering and paying lunches from a nearby campus restaurant beforehand. Further, SmartRestaurant provides the restaurant with means of adjusting the sales with production capacity and prior knowledge of upcoming orders. We present a user evaluation of the system in	
	Keywords : B2C, context-aware, indirect mCommerce, mobile payment	
4	Short papers: Spheres of role in context-awareness Ivo Widjaja, Sandrine Balbo	
	November 2005 Proceedings of the 19th conference of the computer-human interaction special interest group (CHISIG) of Australia on Computer-human interaction: citizens online: considerations for today and the future OZCHI '05	
٠	Publisher: Computer-Human Interaction Special Interest Group (CHISIG) of Australia Full text available: pdf(219.94 KB) Additional Information: full citation, abstract, references	
	This paper outlines a conceptual view in characterising context awareness by its roles in user interaction within a context-aware application. We propose three high-level spheres of role based on the extent of how the context is used to influence the interaction, namely interpretation, representation, and effectuation. The challenges in performing each of these roles are briefly discussed. Our perspective of looking at context-awareness provides alternative approach for choosing le	
	Keywords : context-awareness, context-sensitive, spheres of roles	
5 ②	Mobile interfaces: Sensing and visualizing spatial relations of mobile devices Gerd Kortuem, Christian Kray, Hans Gellersen October 2005 Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05	
	Publisher: ACM Press Full text available: pdf(816.32 KB) Additional Information: full citation, abstract, references, index terms	
	Location information can be used to enhance interaction with mobile devices. While many location systems require instrumentation of the environment, we present a system that allows devices to measure their spatial relations in a true peer-to-peer fashion. The system is based on custom sensor hardware implemented as USB dongle, and computes spatial relations in real-time. In extension of this system we propose a set of spatialized widgets for incorporation of spatial relations in the user interfa	
	Keywords : context-aware computing, location systems, mobile computing, spatial relations, spatially-aware interfaces	
6	The context toolkit: aiding the development of context-enabled applications Daniel Salber, Anind K. Dey, Gregory D. Abowd	



May 1999 Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit CHI '99

Publisher: ACM Press

Full text available: pdf(1.15 MB)

Additional Information: full citation, abstract, references, citings, index terms

Context-enabled applications are just emerging and promise richer interaction by taking environmental context into account. However, they are difficult to build due to their distributed nature and the use of unconventional sensors. The concepts of toolkits and widget libraries in graphical user interfaces has been tremendously successtil, allowing programmers to leverage off existing building blocks to build interactive systems more easily. We introduce the concept of context widgets ...

Keywords: applications development, context-eabled or context-aware computing, toolkits, ubiquitous computing, widgets

Personal customisation of mobile phones: a case study



Jonna Häkkilä, Craig Chatfield

October 2006 Proceedings of the 4th Nordic conference on Human-computer interaction: changing roles NordiCHI '06

Publisher: ACM Press

Full text available: pdf(318.06 KB) Additional Information: full citation, abstract, references, index terms

Mobile phones are highly personal, customisable mobile computing devices that allow users to precisely control how they interact with the device and their environment. This paper examines the process of customisation and seeks to identify how this customisation can be improved as the rate of adoption of new phones increases. We present a user case study of how 60 mobile phone users personalised their mobile phones during the first few weeks of ownership, and how they perceived different personal ...

Keywords: customisation, mobile computing, mobile phones, personalisation

Capturing summarizability with integrity constraints in OLAP



Carlos A. Hurtado, Claudio Gutierrez, Alberto O. Mendelzon

September 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 3

Publisher: ACM Press

Full text available: pdf(710.79 KB)

Additional Information: full citation, abstract, references, index terms, review

In multidimensional data models intended for online analytic processing (OLAP), data are viewed as points in a multidimensional space. Each dimension has structure, described by a directed graph of categories, a set of members for each category, and a child/parent relation between members. An important application of this structure is to use it to infer summarizability, that is, whether an aggregate view defined for some category can be correctly derived from a set of precomputed views defined f ...

Keywords: OLAP, data warehousing, integrity constraints, query-optimization, summarizability

Regular contributions: Lifetrak: music in tune with your life



Sasank Reddy, Jeff Mascia

October 2006 Proceedings of the 1st ACM international workshop on Human-centered multimedia HCM '06

Publisher: ACM Press

Full text available: pdf(669.39 KB) Additional Information: full citation, abstract, references, index terms

Advances in sensing technology and wider availability of network services is beckoning the use of context-awareness in ubiquitous computing applications. One region in which these technologies can play a major role is in the area of entertainment. Particularly, contextawareness can be used to provide higher quality interaction between humans and the media they are interacting with. We propose a music player, Lifetrak, that is in tune with a person's life by using a context-sensitive music engin ...

Keywords: context, entertainment, mobile, music, sensors

	Personal assistants 2: Fewer clicks and less frustration: reducing the cost of reaching the right folder Xinlong Bao, Jonathan L. Herlocker, Thomas G. Dietterich January 2006 Proceedings of the 11th international conference on Intelligent user interfaces IUI '06 Publisher: ACM Press Full text available: pdf(328.37 KB) Additional Information: full citation, abstract, references, index terms	
	Helping computer users rapidly locate files in their folder hierarchies has become an important research topic in today's intelligent user interface design. This paper reports on FolderPredictor, a software system that can reduce the cost of locating files in hierarchical folders. FolderPredictor applies a cost-sensitive prediction algorithm to the user's previous file access information to predict the next folder that will be accessed. Experimental results show that, on average, FolderPredictor	
	Keywords : activities, directories, folders, intelligent user interfaces, machine learning, prediction, recommendation, shortcuts, tasks, user interface	
	On the complexity of nonrecursive XQuery and functional query languages on complex values Christoph Koch December 2006 ACM Transactions on Database Systems (TODS), Volume 31 Issue 4 Publisher: ACM Press Full text available: pdf(700.17 KB) Additional Information: full citation, abstract, references, index terms	
	This article studies the complexity of evaluating functional query languages for complex values such as monad algebra and the recursion-free fragment of XQuery. We show that monad algebra, with equality restricted to atomic values, is complete for the class $TA[2^{O(n)}, O(n)]$ of problems solvable in linear exponential time with a linear number of alternations if the query is assumed to be part of the input. The monotone fragment of monad algebra with atomic va	•
	Keywords : Complex values, XML, XQuery, complexity, conservativity, expressiveness, monad algebra, nested-relational algebra	
12 ③	Data Access and Knowledge Management: Advanced grouping and aggregation for data integration Eike Schallehn, Kai-Uwe Sattler, Gunter Saake October 2001 Proceedings of the tenth international conference on Information and knowledge management CIKM '01 Publisher: ACM Press	

Full text available: pdf(570.54 KB)

Additional Information: full citation, abstract, references, citings, index

terms

New applications from the areas of analytical data processing and data integration require powerful features to condense and reconcile available data. As outlined in [1], the general concept of grouping and aggregation appears to be a fitting paradigm for a number of these issues, but in its common form of equality based groups or with current extensions like simple user-defined functions to derive group-by values on a per tuple basis and restricted aggregate functions a number of problems remai ...

13	Stateful distributed interposition	
٩	John Reumann, Kang G. Shin	
~	February 2004 ACM Transactions on Computer Systems (TOCS), Volume 22 Issue 1	
	Publisher: ACM Press	
	Full text available: pdf(833.84 KB) Additional Information: full citation, abstract, references, index terms	
	Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex servic	
	Keywords : Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation	
14	Modeling user behavior: Predicting human interruptibility with sensors: a Wizard of	
	Oz feasibility study	
~	Scott Hudson, James Fogarty, Christopher Atkeson, Daniel Avrahami, Jodi Forlizzi, Sara	
	Kiesler, Johnny Lee, Jie Yang	
	April 2003 Proceedings of the SIGCHI conference on Human factors in computing	
	systems CHI '03	
	Publisher: ACM Press	
	Full text available: pdf(727.56 KB) Additional Information: full citation, abstract, references, citings, index terms	
	A person seeking someone else's attention is normally able to quickly assess how interruptible they are. This assessment allows for behavior we perceive as natural, socially appropriate, or simply polite. On the other hand, today's computer systems are almost entirely oblivious to the human world they operate in, and typically have no way to take into account the interruptibility of the user. This paper presents a Wizard of Oz study exploring whether, and how, robust sensor-based predictions of	
	Keywords : context-aware computing, machine learning, sensor-based interfaces,	
	situationally appropriate interaction	
15	Interaction in the real world: Customizable physical interfaces for interacting with	
	conventional applications	_
③	Saul Greenberg, Michael Boyle	
	October 2002 Proceedings of the 15th annual ACM symposium on User interface	
	software and technology UIST '02	
	Publisher: ACM Press	
	Full text available: pdf(767.09 KB)	
	wmv(370.00 Additional Information: full citation, abstract, references, citings, index	
	bytes) o mov terms	
	(370.00 bytes)	

When using today's productivity applications, people rely heavily on graphical controls (GUI widgets) as the way to invoke application functions and to obtain feedback. Yet we all know that certain controls can be difficult or tedious to find and use. As an alternative, a customizable physical interface lets an end-user easily bind a modest number of physical controls to similar graphical counterparts. The user can then use the physical control to invoke the corresponding graphical contro ...

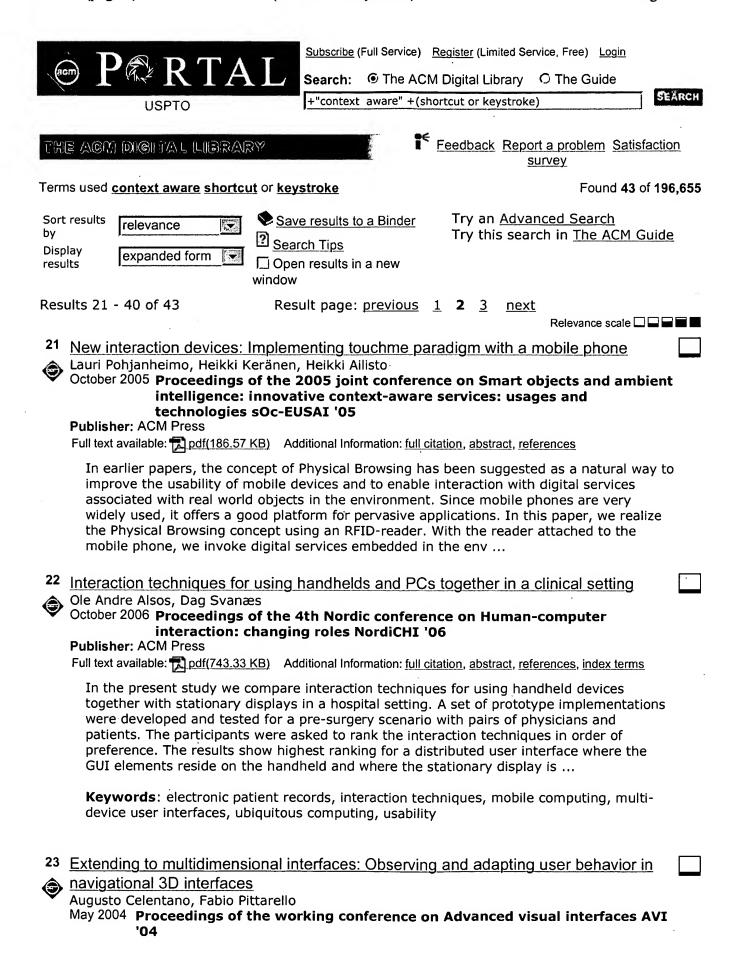
16 ②	June 2002 Proceedings of the conference on Designing Interactive systems:	
	processes, practices, methods, and techniques DIS '02 Publisher: ACM Press	
	Full text available: pdf(288.64 KB) Additional Information: full citation, abstract, references, citings, index terms	
	Virtual studio technology enables the mixing of physical and digital 3D objects and thus expands the way of representing design ideas in terms of <i>virtual video prototypes</i> , which offers new possibilities for designers by combining elements of prototypes, mock-ups, scenarios, and conventional video. In this article we report our initial experience in the domain of pervasive healthcare with producing virtual video prototypes and using them in a design workshop. Our experience has been predom	
	Keywords : design, pervasive computing, pervasive healthcare, prototyping, video, virtual studio	
17	Live documents with contextual, data-driven information components	Г
③	Anka Mahan Halaan M. Kianla Hayai A. Müllan	
	Publisher: ACM Press	
	Full text available: pdf(627.10 KB) Additional Information: full citation, abstract, references, citings, index terms	
	We introduce the notion of a live document and we describe our concept of live documents with contextual, data driven information components. The dynamic and interactive features of live documents provide a consistent data source for multimedia presentations targeted to various audiences and multiple platforms. Therefore, they contribute to the solution of key challenges in single sourcing and repurposing. We motivate the use of live documents with sample scenarios from the field of systems docu	•
	Keywords : Microsoft Office, live documents, repurposing, reverse engineering, scalable vector graphics, single sourcing, software engineering, systems documentation	
18 ②	Full papers (written in English): Performance evaluation of inference services for ubiquitous computing Renato F. Bulcão Neto, Maria da Graça Pimentel November 2006 Proceedings of the 12th Brazilian symposium on Multimedia and the	
	web WebMedia '06	
	Publisher: ACM Press	
	Full text available: pdf(477.44 KB) Additional Information: full citation, abstract, references, index terms	
	Considering the current efforts to deal with performance evaluation of ubiquitous computing services, we focus on evaluating a context inference service that can be configured according to applications' reasoning requirements. After detailing a	

performance evaluation of a context inference service with multiple inference engines over

semantic context information, we discuss general reasoning-related issues that developers must take into account when building ontology-based ubiquitous application ...

Keywords: context-aware, ontology, performance, reasoning

19	Activity: design implications: Support for activity-based computing in a personal							
٩	computing operating system							
~	Jakob Bardram, Jonathan Bunde-Pedersen, Mads Soegaard							
	April 2006 Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06							
	Publisher: ACM Press							
	Full text available: pdf(3.99 MB) Additional Information: full citation, abstract, references, index terms							
	Research has shown that computers are notoriously bad at supporting the management of parallel activities and interruptions, and that mobility increases the severity of these problems. This paper presents activity-based computing (ABC) which supplements the prevalent data- and application-oriented computing paradigm with technologies for handling multiple, parallel and mobile work activities. We present the design and implementation of ABC support embedded in the Windows XP operating system. Thi							
	Keywords : ABC, activity-based computing, task management, ubiquitous computing, user evaluation							
20	Mahila dayigaa; m LOMA sa mahila 2D aitu man							
	Mobile devices: m-LOMA - a mobile 3D city map Antti Nurminen							
9	April 2006 Proceedings of the eleventh international conference on 3D web							
	technology Web3D '06							
	Publisher: ACM Press							
	Full text available: pdf(458.46 KB) Additional Information: full citation, abstract, references, index terms							
	m-LOMA, mobile LOcation-Aware Messaging Application, is designed to be a mobile portal to location-based information in cities. The user can perform textual searches to location-based content, navigate using 2D maps assisted by a GPS, and leave messages to the environment, or recognize the environment from a 3D map. The 3D map view is the key feature of the m-LOMA system. The m-LOMA client is capable of rendering photorealistic 3D city models with augmented location-based information in a							
	Keywords : 3D graphics, 3D maps, GIS, VRML, mobile computing, mobile guides, visibility							
Res	ults 1 - 20 of 43 Result page: 1 2 3 next							
	The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc. <u>Terms of Usage</u> <u>Privacy Policy</u> <u>Code of Ethics</u> <u>Contact Us</u>							
	Useful downloads: Adobe Acrobat Q QuickTime Windows Media Player Real Player							



Publisher: ACM Press

Full text available: pdf(253.47 KB) Additional Information: full citation, abstract, references, index terms

In a navigation-oriented interaction paradigm, such as desktop, mixed and augmented virtual reality, recognizing the user needs is a valuable improvement, provided that the system is able to correctly anticipate the user actions. Methodologies for adapting both navigation and content allow the user to interact with a customized version of the 3D world, lessening the cognitive load needed for accomplishing tasks such as finding places and objects, and acting on virtual devices. This work discusses ...

24	Interaction:	Adaptive	interaction	in Web3D	virtual worlds

Augusto Celentano, Michele Nodari, Fabio Pittarello

April 2004 Proceedings of the ninth international conference on 3D Web technology Web3D '04

Publisher: ACM Press

Full text available: Top pdf(395.75 KB) Additional Information: full citation, abstract, references, citings

In recent years a number of techniques have been studied for augmenting the ease of use of 3D worlds: methodologies for adapting both navigation and content allow a user to interact with a customized 3D world; adaptable navigation paradigms offer parallel modalities for different classes of users. In both cases the goal is to reduce the cognitive load needed for interaction. This work focuses on interaction adaptivity, trying to anticipate the user behaviors by monitoring their interaction patter ...

Keywords: 3D worlds, VRML, adaptivity, agents, interaction

²⁵ The information furnace: consolidated home control

Diomidis D. Spinellis

May 2003 Personal and Ubiquitous Computing, Volume 7 Issue 1

Publisher: Springer-Verlag

Full text available: pdf(488.36 KB) Additional Information: full citation, abstract, citings, index terms

The Information Furnace is a basement-installed PC-type device that integrates existing consumer home-control, infotainment, security and communication technologies to transparently provide accessible and value-added services. A modern home contains a large number of sophisticated devices and technologies. Access to these devices is currently provided through a wide variety of disparate interfaces. As a result, end users face a bewildering array of confusing user-interfaces, access modes a ...

Keywords: Automation, Consumer electronics, Home-control, Multi-modal interfaces

26 Interaction design methods 3: External representations in ubiquitous computing

design and the implications for design tools

Steven Dow, T. Scott Saponas, Yang Li, James A. Landay

June 2006 Proceedings of the 6th ACM conference on Designing Interactive systems **DIS '06**

Publisher: ACM Press

Full text available: pdf(1.80 MB) Additional Information: full citation, abstract, references, index terms

One challenge for ubiquitous computing is providing appropriate tools for professional designers, thus leading to stronger user-valued applications. Unlike many previous toolbuilders' attempts to support a specific technology, we take a designer-centered stance, asking the question: how do professional designers externalize ideas for off-the-desktop computing and how do these inform next generation design tools? We report on interviews with designers from various domains, including experience, ...

storyboarding, ubiquitous computing ²⁷ Using knowledge to predict and manage: A goal-oriented web browser Alexander Faaborg, Henry Lieberman April 2006 Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06 Publisher: ACM Press Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.68 MB) Many users are familiar with the interesting but limited functionality of Data Detector interfaces like Microsoft's Smart Tags and Google's AutoLink. In this paper we significantly expand the breadth and functionality of this type of user interface through the use of large-scale knowledge bases of semantic information. The result is a Web browser that is able to generate personalized semantic hypertext, providing a goal-oriented browsing experience. We present (1) Creo, a Programming by Example s ... Keywords: ConceptNet, TAP, commonsense reasoning, context aware computing, data detectors, goal-oriented design, open mind, programming by example, software agents ²⁸ Interaction techniques: Comparing two one-handed access methods on a PDA Lei Dong, Carolyn Watters, Jack Duffy September 2005 Proceedings of the 7th international conference on Human computer interaction with mobile devices & services MobileHCI '05 Publisher: ACM Press Full text available: pdf(280.16 KB) Additional Information: full citation, abstract, references, index terms Users of mobile devices often need to use those devices in contexts which leave only one hand available for manipulating the device, such as holding another device or manual, walking or operating some machinery. In this paper we discuss the results of a comparison of the effectiveness, efficiency and preference users have for map navigation tasks on a PDA, where they are restricted to one handed use. One method uses a tilt sensor and touch screen and the other uses multifunction buttons and the t ... **Keywords**: PDA, handheld device, input method, map navigation, one-handed, tilt 29 Evolution towards smart home environments: empirical evaluation of three user interfaces Tiiu Koskela, Kaisa Väänänen-Vainio-Mattila July 2004 Personal and Ubiquitous Computing, Volume 8 Issue 3-4 Publisher: Springer-Verlag Full text available: pdf(265.36 KB) Additional Information: full citation, abstract, citings, index terms Smart home environments have evolved to the point where everyday objects and devices at home can be networked to give the inhabitants new means to control them. Familiar information appliances can be used as user interfaces (UIs) to home functions to achieve a more convenient user experience. This paper reports an ethnographic study of smart

Keywords: authoring tools, design practice, external representations, qualitative study,

Keywords: Ethnographic study, Information appliances, Smart home, Usability, User interface

home usability and living experience. The purpose of the research was to evaluate three

UIs—a PC, a media terminal, and a mobile phone—for smart ...

30	Formal models-1: Probabilistic model for contextual retrieval Ji-Rong Wen, Ni Lao, Wei-Ying Ma	
•	July 2004 Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04	
	Publisher: ACM Press Full text available: pdf(200.19 KB) Additional Information: full citation, abstract, references, index terms	
	Contextual retrieval is a critical technique for facilitating many important applications such as mobile search, personalized search, PC troubleshooting, etc. Despite of its importance, there is no comprehensive retrieval model to describe the contextual retrieval process. We observed that incompatible context, noisy context and incomplete query are several important issues commonly existing in contextual retrieval applications. However, these issues have not been previously explored and discuss	
	Keywords : contextual retrieval, probabilistic model, query expansion, query log	
31 ②	Late breaking result papers: Context photography: modifying the digital camera into a new creative tool Sara Ljungblad, Maria Hakansson, Lalya Gaye, Lars Erik Holmquist April 2004 CHI '04 extended abstracts on Human factors in computing systems CHI	
	'04	
	Publisher: ACM Press Full text available: pdf(2.21 MB) Additional Information: full citation, abstract, references, citings, index terms	
	Context photography consists of capturing context when taking a picture, by sensing physical input in addition to light and representing it visually in real time. By developing this concept, we explore alternative potentials of digital cameras as everyday creative tools. We have developed two prototypes and tested them in user workshops. Based on the results of this process, we present implications of such modifications of underlying characteristics of a still camera.	
	Keywords: context photography, digital cameras, everyday creativity	
	Gummi: a bendable computer Carsten Schwesig, Ivan Poupyrev, Eijiro Mori April 2004 Proceedings of the SIGCHI conference on Human factors in computing systems CHI '04 Publisher: ACM Press	
	Full text available: pdf(4.40 MB) Additional Information: full citation, abstract, references, citings, index terms	
	Gummi is an interaction technique and device concept based on physical deformation of a handheld device. The device consists of several layers of flexible electronic components, including sensors measuring deformation of the device. Users interact with this device by a combination of bending and 2D position control. Gummi explores physical interaction techniques and screen interfaces for such a device. Its graphical user interface facilitates a wide range of interaction tasks, focused on browsin	

http://portal.acm.org/results.cfm?query=%2B%22context%20%20aware%22%20%2B%28sho... 1/9/07

Keywords: GUI, embodied interaction, flexible electronics, handheld devices, interaction design, mobile computing, smartcards

33	Multimodal architectures and frameworks: SmartKom: adaptive and flexible	
\oigo\	multimodal access to multiple applications Norbert Reithinger, Jan Alexandersson, Tilman Becker, Anselm Blocher, Ralf Engel, Markus Löckelt, Jochen Müller, Norbert Pfleger, Peter Poller, Michael Streit, Valentin Tschernomas November 2003 Proceedings of the 5th international conference on Multimodal interfaces ICMI '03 Publisher: ACM Press	
	Full text available: pdf(660.17 KB) Additional Information: full citation, abstract, references, citings, index terms	
	The development of an intelligent user interface that supports multimodal access to multiple applications is a challenging task. In this paper we present a generic multimodal interface system where the user interacts with an anthropomorphic personalized interface agent using speech and natural gestures. The knowledge-based and uniform approach of SmartKom enables us to realize a comprehensive system that understands imprecise, ambiguous, or incomplete multimodal input and generates coordinated,	
	Keywords : intelligent multimodal interfaces, multiple applications, system description	
34	Hypermedia semantics: Which semantic web?	
•	Catherine C. Marshall, Frank M. Shipman August 2003 Proceedings of the fourteenth ACM conference on Hypertext and hypermedia HYPERTEXT '03	
•	Publisher: ACM Press	•
	Full text available: pdf(329.99 KB) Additional Information: full citation, abstract, references, citings, index terms	
	Through scenarios in the popular press and technical papers in the research literature, the promise of the Semantic Web has raised a number of different expectations. These expectations can be traced to three different perspectives on the Semantic Web. The Semantic Web is portrayed as: (1) a universal library, to be readily accessed and used by humans in a variety of information use contexts; (2) the backdrop for the work of computational agents completing sophisticated activities on behalf of t	
	Keywords : digital libraries, hypertext, information systems, knowledge acquisition, knowledge representation, semantic web	
35 ③	Papers: 3D drawing: A suggestive interface for 3D drawing Takeo Igarashi, John F. Hughes November 2001 Proceedings of the 14th annual ACM symposium on User interface software and technology UIST '01 Publisher: ACM Press	
	Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references, citings, index terms	
	This paper introduces a new type of interface for 3D drawings that improves the usability	

This paper introduces a new type of interface for 3D drawings that improves the usability of gestural interfaces and augments typical command-based modeling systems. In our suggestive interface, the user gives hints about a desired operation to the system by highlighting related geometric components in the scene. The system then infers possible operations based on the hints and presents the results of these operations as small thumbnails. The user completes the editing operation simply by clicki ...

Keywords: 3D drawing, gestural interface, interaction technique, prediction, user interface design

36	An introduction to sketch-based interfaces: A suggestive interface for 3D drawing	
③	Takeo Igarashi, John F. Hughes July 2006 ACM SIGGRAPH 2006 Courses SIGGRAPH '06	
	Publisher: ACM Press	
	Full text available: pdf(560.37 KB) Additional Information: full citation, abstract, references	
	This paper introduces a new type of interface for 3D drawings that improves the usability of gestural interfaces and augments typical command-based modeling systems. In our suggestive interface, the user gives hints about a desired operation to the system by highlighting related geometric components in the scene. The system then infers possible operations based on the hints and presents the results of these operations as small thumbnails. The user completes the editing operation simply by clicki	
	Keywords : 3D drawing, gestural interface, interaction technique, prediction, user interface design	
37 ②	Navigational assistance: Interactive tracking of movable objects for the blind on the basis of environment models and perception-oriented object recognition methods Andreas Hub, Tim Hartter, Thomas Ertl October 2006 Proceedings of the 8th international ACM SIGACCESS conference on Computers and accessibility Assets '06 Publisher: ACM Press	
	Full text available: pdf(4.34 MB) Additional Information: full citation, abstract, references, index terms	
	In previous work we have presented a prototype of an assistant system for the blind that can be used for self-localization and interactive object identification of static objects stored within 3D environment models. In this paper we present a new method for interactive tracking of various types of movable objects. The state of fixed movable objects, like doors, can be recognized by comparing the distance between sensor data and a 3D model. For the identification and model-based tracking of free	
	Keywords : blind users, impaired vision, indoor navigation, mobile computing	•
38 ②	Projecting the future: Interactive environment-aware display bubbles Daniel Cotting, Markus Gross October 2006 Proceedings of the 19th annual ACM symposium on User interface software and technology UIST '06 Publisher: ACM Press	
	Full text available: pdf(28.27 MB) Additional Information: full citation, abstract, references, index terms	
	We present a novel display metaphor which extends traditional tabletop projections in collaborative environments by introducing freeform, environment-aware display representations and a matching set of interaction schemes. For that purpose, we map personalized widgets or ordinary computer applications that have been designed for a conventional, rectangular layout into space-efficient bubbles whose warping is performed with a potential-based physics approach. With a set of interaction operators b	
	Keywords : adaptive displays, focus and context, imperceptible structured light, interaction, projectors, tabletop	
39	Multimedia: Kimono: kiosk-mobile phone knowledge sharing system Albert Huang, Kari Pulli, Larry Rudolph December 2005 Proceedings of the 4th international conference on Mobile and ubiquitous multimedia MUM '05	

Publisher: ACM Press

Full text available: pdf(283.85 KB) Additional Information: full citation, abstract, references

The functionality of an information kiosk can be extended by allowing it to interact with a smartphone, as demonstrated by the Kimono system, and the user interface can be greatly simplified by "associations" between pieces of information. A kiosk provides information that is relevant to a particular location and can use valuable context information, such as the fact that a user is physically standing in front of the kiosk, to tailor the display. Its graphically rich screen is suitable for prese ...

40 Gadgets '06: Mobile navigation support for pedestrians: can it work and does it pay

<u>y</u>

off?

Manfred Tscheligi, Reinhard Sefelin July 2006 interactions, Volume 13 Issue 4

Publisher: ACM Press

Full text available: pdf(444.80 KB)

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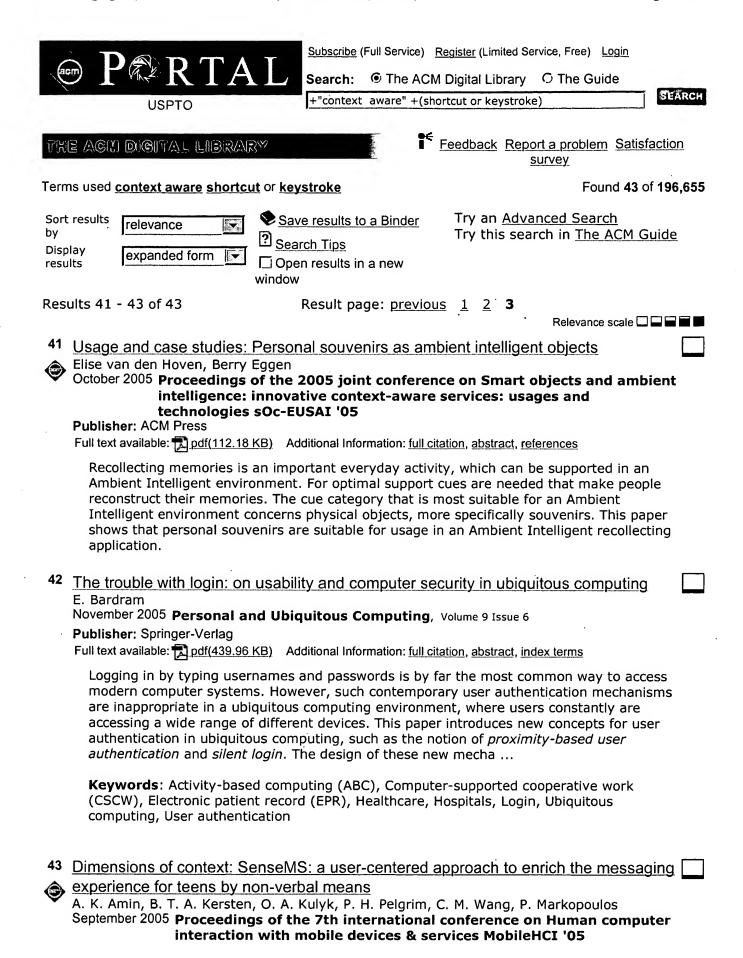
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Publisher: ACM Press

Full text available: pdf(340.56 KB) Additional Information: full citation, abstract, references, index terms

This paper reports the user study and design of a concept to improve mobile messaging for teens. A study of current mobile phone use by teens (16-18) showed that, while they prefer communicating by Short Message Service (SMS), they miss expressiveness in this application. An enhanced SMS application, SenseMS, is designed to support affective communication. An evaluation of a SenseMS prototype has shown that enhancing text messages with contextual information and human embodiment can result in a ...

Keywords: SMS, avatar, mobile phone, non-verbal communication, teens, text messaging

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L1	120	(shortcut or keystroke) with (interface and table)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 10:48
L2	. 4	(shortcut or keystroke) with (interface and table and quer\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 10:52
L3	123	(shortcut same keystroke)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 10:55
L4	64	3 and context	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 10:52
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L6	6	(shortcut same keystroke) same context	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 10:56
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L10	17	9 and context adj3 table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 10:59
L11	0	10 and shortcut adj6 table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 10:59
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L14		13 and interface and query and ((field and table) near3 context)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/09 11:02
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